

U.S. Patent Application Serial No. 09/938,310
Amendment dated January 8, 2004
Reply to OA of July 11, 2003

IN THE CLAIMS:

Please cancel claims 1, 2, 4-6, and 25-34, without prejudice or disclaimer.

Please amend claims 3, 4, 15, 16, 18-22, 24 and 35 as follows:

1. (Currently Canceled).
2. (Currently Canceled).
3. (Currently Amended): The method for purification according to ~~Claim 1 or 2~~ Claim 18 wherein the oxidizing agent is oxygen or ozone.

4-14 (Canceled)

15. (Currently Amended): The method for purification according to Claim 2 18, wherein the vinyl polymer ~~having at least one alkenyl group per molecule~~ is obtained by the atom transfer radical polymerization of a vinyl monomer using a transition metal complex as a polymerization catalyst.

16. (Currently Amended): The method for purification according to Claim 2 18, wherein the ~~alkenyl group~~ reactive functional group is located at the molecular chain terminus of the vinyl polymer.

17. (Previously Presented): The method for purification according to Claim 16

wherein the vinyl polymer having an alkenyl group at the molecular chain terminus is obtained by adding a compound having two or more sparingly polymerizable carbon-carbon double bonds during polymerization or after completion of polymerization in an atom transfer radical polymerization system.

18. (Currently Amended): A method for purification of a vinyl polymer having at least one reactive functional group per molecule for use as a component for a hydrosilylatable composition

which comprises bringing the vinyl polymer into contact with an oxidizing agent to produce a purified vinyl polymer.

19. (Currently Amended): The method for purification according to Claim ~~1~~ or ~~2~~ 18

wherein the vinyl polymer is a (meth)acrylic polymer.

20. (Currently Amended): The method for purification according to Claim ~~1~~ or ~~2~~ 18

wherein the vinyl polymer has a number average molecular weight of 500 to 100000.

21. (Currently Amended): The method for purification according to Claim ~~1~~ or ~~2~~ 18

wherein the vinyl polymer has a molecular weight distribution value of less than 1.8.

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22. (Currently Amended): The method for purification according to Claim ~~1~~ or ~~2~~ 15
wherein a center metal of the transition metal complex belongs to group 8, group 9, group 10 or group 11 of the periodic table of the elements.

23. (Previously Presented): The method for purification according to Claim 22
wherein the center metal of the transition metal complex is iron, nickel, ruthenium, or copper.

24. (Currently Amended) The method for purification according to Claim ~~1~~ or ~~2~~ 15
wherein a polyamide compound is used as a catalyst ligand for atom transfer radical polymerization.

25-34 (Canceled)

35. (Currently Amended): The method for purification according to Claim ~~1~~ 18
wherein the reactive functional group is a functional group selected from the group consisting of alkenyl, crosslinkable silyl, hydroxyl, epoxy, amino and amido.